

## CKS IP66/IP67 SEALED ROTARY SWITCH

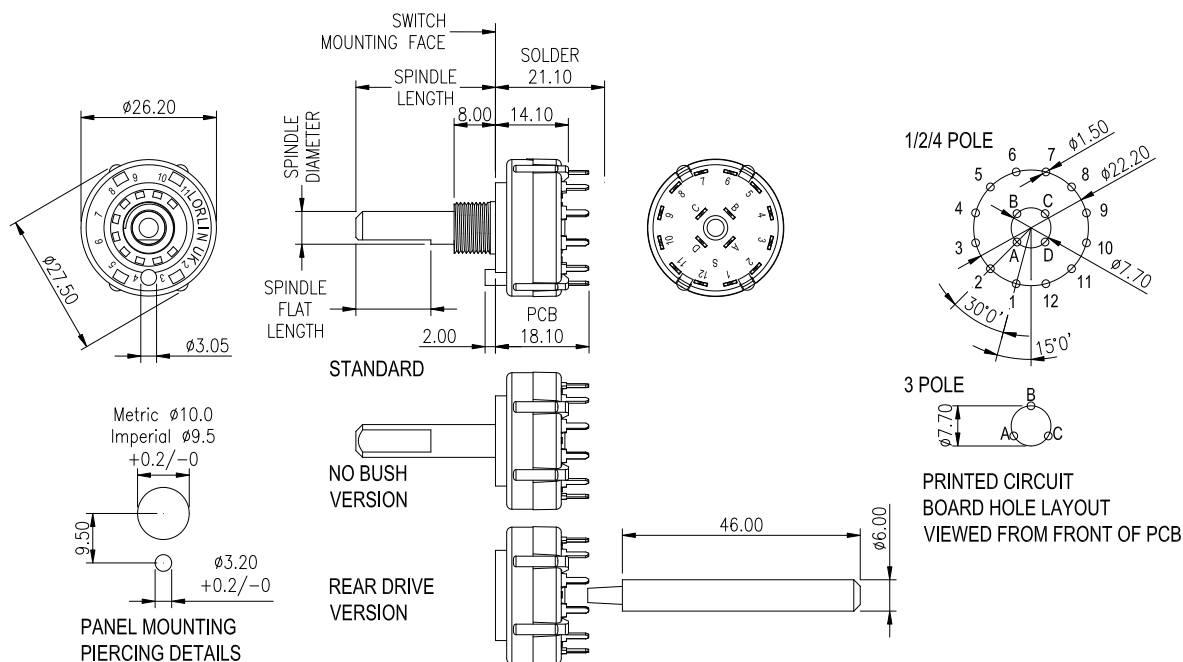
### ELECTRICAL & MECHANICAL SPECIFICATION

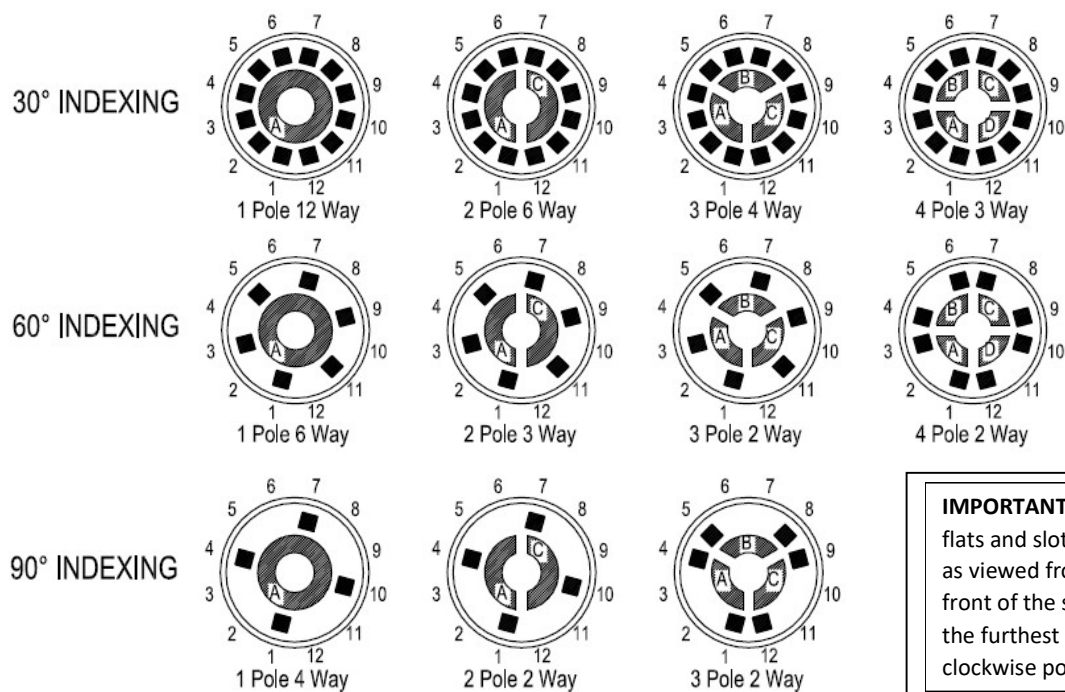
|                                   |                              |                                    |                            |
|-----------------------------------|------------------------------|------------------------------------|----------------------------|
| <b>Switch Rating:</b>             | 1A @ 24V ac/dc               | <b>Life:</b>                       | >10,000 Cycles             |
| <b>Proof Voltage:</b>             | 1,500V ac (Initial)          | <b>Operating Torque (nominal):</b> | Standard 8.6 ±1 cNm        |
| <b>Insulation Resistance:</b>     | >999 MΩ at 500V dc (Initial) |                                    | Light Action 3.5 ± 0.5 cNm |
| <b>Contact Resistance</b>         | <20 mΩ (Initial)             | <b>End Stop Torque (nominal):</b>  | 0.80 Nm                    |
| <b>Contact/Terminal Material:</b> | Brass CZ108 Ag Plated        | <b>Moulding Material:</b>          | Polyamide 6.6 G.F          |
| <b>Operating Temperature:</b>     | -30°C to +85°C               |                                    |                            |

### FEATURES

Protected against water ingress from powerful water jets or temporary immersion in water of one meter depth

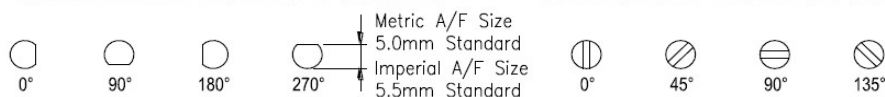
|                                              |                                                                                    |                                                                      |
|----------------------------------------------|------------------------------------------------------------------------------------|----------------------------------------------------------------------|
| Single wafer switch                          | Shorting (make before break 30° indexing only) or non-shorting (break before make) | Dampened indexing and reduced shaft play gives smooth feel operation |
| Maximum 12 positions                         | Moulded stop or adjustable stops to restrict number of positions                   | Solder or PCB terminals                                              |
| Up to 4 poles per switch                     | Continuous rotation also available                                                 | Gold flashed or gold plated                                          |
| Standard 30° indexing, 60° and 90° available | Made in UK                                                                         | Spindles with special flats, slots or knurls                         |
| Moulded 27.5mm                               | UL-V0 rated material available                                                     | Rear drive versions                                                  |





SPINDLE FLAT ANGLE - AVAILABLE IN 15° INCREMENTS

SCREWDRIVER SLOT - AVAILABLE IN 45° INCREMENTS



## ORDERING CODE FOR NON-STANDARD SWITCHES

| C K S                         |                        |            |              |                 |               |                    |            |                        |                   |
|-------------------------------|------------------------|------------|--------------|-----------------|---------------|--------------------|------------|------------------------|-------------------|
| SPINDLE LENGTH FMF IN FULL MM |                        |            |              |                 |               |                    |            |                        |                   |
| Index Angles & NO. OF POLES   | NO OF WAYS (POSITIONS) | MBB or BBM | Contact Type | Contact Plating | SPINDLE DIAM. | SPINDLE FLAT DEPTH | BUSH DIAM. | LENGTH OF SPINDLE FLAT | ANGLE OF FLAT (°) |
| A 30° 1Pole                   | A 2                    | A BBM      | Solder       | SILVER          | A 6mm         | Nil                | M10        | A 2 N 15               | A 0 N 195         |
| B 2                           | B 3                    | B MBB*     | Solder       |                 | B 6mm         | 5mm                | M10        | B 3 O No Flat          | B 15 O            |
| C 3                           | C 4                    | C BBM      | PCB          |                 | C 6.35mm      | Nil                | 9.52 mm    | C 4 P 16               | C 30 P 210        |
| D 4                           | D 5                    | D MBB*     | PCB          |                 | D 6.35mm      | 5.5mm              | 9.52 mm    | D 5 Q 17               | D 45 Q 225        |
| E 60° 1Pole                   | E 6                    | E BBM      | Solder       | GOLD PLATE      |               |                    |            | E 6 R 18               | E 60 R 240        |
| F 2                           | F 7                    | F MBB*     | Solder       |                 |               |                    |            | F 7 S 19               | F 75 S 255        |
| G 3                           | G 8                    | G BBM      | PCB          |                 |               |                    |            | G 8 T 20               | G 90 T 270        |
| H 4                           | H 9                    | H MBB*     | PCB          |                 |               |                    |            | H 9 U 21               | H 105 U 285       |
| I 90° 1Pole                   | I 10                   | I BBM      | Solder       | GOLD FLASH      |               |                    |            | I 10 V 22              | I 120 V 300       |
| J 2                           | J 11                   | J MBB*     | Solder       |                 |               |                    |            | J 11 W 23              | J 135 W 315       |
| K 3                           | K 12                   | K BBM      | PCB          |                 |               |                    |            | K 12 X 24              | K 150 X 330       |
| Z No Stop                     | L MBB*                 | L MBB*     | PCB          |                 |               |                    |            | L 13 Y 25              | L 165 Y 345       |
|                               |                        |            |              |                 |               |                    |            | M 14 Z Full            | M 180             |

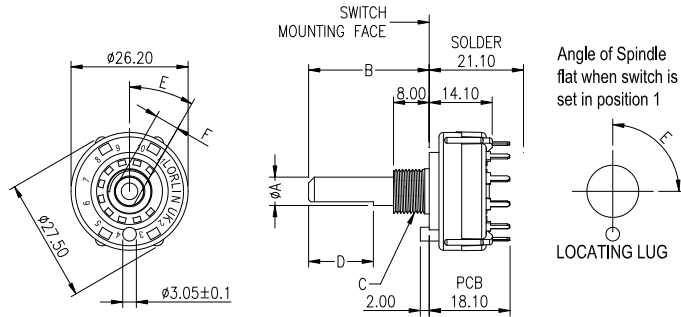
\*30° INDEX ANGLE ONLY

## STANDARD PART NUMBERS

| BASIC TYPES | SPINDLE DIAMETER | SPINDLE LENGTH FROM MOUNTING FACE | 8mm LONG BUSH | SPINDLE FLAT LENGTH | ANGLE OF SPINDLE FLAT | SPINDLE FLAT THICKNESS |
|-------------|------------------|-----------------------------------|---------------|---------------------|-----------------------|------------------------|
| IMPERIAL    | 6.35mm           | 38mm                              | 9.52 x 32 TPI | 30mm                | 90°                   | 5.5mm                  |
| METRIC      | 6.00mm           | 50mm                              | M10 x 0.75    | No Flat             | -                     | -                      |

| CIRCUITRY AT 30° INDEXING | STANDARD METRIC            |                |                     | STANDARD IMPERIAL |                     |
|---------------------------|----------------------------|----------------|---------------------|-------------------|---------------------|
|                           | PLATING FINISH             | Shorting (MBB) | Non- Shorting (BBM) | Shorting (MBB)    | Non- Shorting (BBM) |
| <b>1 POLE 12 POSITION</b> | <b>STOP INCLUDED</b>       |                |                     |                   |                     |
| Solder Tag                | Silver                     | CKS1039        | CKS1029             | CKS1034           | CKS1024             |
|                           | Gold Flash                 | CKS1508        | CKS1503             | CKS1516           | CKS1520             |
|                           | Gold Plate                 | CKS2444        | CKS1672             | CKS2458           | CKS2459             |
| Printed Circuit Board     | Silver                     | CKS1059        | CKS1049             | CKS1054           | CKS1044             |
|                           | Gold Flash                 | CKS1512        | CKS1506             | CKS1524           | CKS1528             |
|                           | Gold Plate                 | CKS1475        | CKS1312             | CKS2460           | CKS2461             |
| <b>1 POLE 12 POSITION</b> | <b>CONTINUOUS ROTATION</b> |                |                     |                   |                     |
| Solder Tag                | Silver                     | CKS1038        | CKS1028             | CKS1033           | CKS1023             |
|                           | Gold Flash                 | CKS1533        | CKS1537             | CKS1541           | CKS1545             |
|                           | Gold Plate                 | CKS2445        | CKS2446             | CKS2462           | CKS2463             |
| Printed Circuit Board     | Silver                     | CKS1058        | CKS1048             | CKS1053           | CKS1043             |
|                           | Gold Flash                 | CKS1534        | CKS1538             | CKS1542           | CKS1546             |
|                           | Gold Plate                 | CKS2447        | CKS2448             | CKS2464           | CKS2465             |
| <b>2 POLE 6 POSITION</b>  | <b>STOP INCLUDED</b>       |                |                     |                   |                     |
| Solder Tag                | Silver                     | CKS1040        | CKS1030             | CKS1035           | CKS1025             |
|                           | Gold Flash                 | CKS1509        | CKS1496             | CKS1517           | CKS1521             |
|                           | Gold Plate                 | CKS2449        | CKS1726             | CKS2466           | CKS2467             |
| Printed Circuit Board     | Silver                     | CKS1060        | CKS1050             | CKS1055           | CKS1045             |
|                           | Gold Flash                 | CKS1513        | CKS1473             | CKS1525           | CKS1529             |
|                           | Gold Plate                 | CKS2450        | CKS1850             | CKS2468           | CKS2469             |
| <b>2 POLE 6 POSITION</b>  | <b>CONTINUOUS ROTATION</b> |                |                     |                   |                     |
| Solder Tag                | Silver                     | CKS1114        | CKS1118             | CKS1120           | CKS1121             |
|                           | Gold Flash                 | CKS1535        | CKS1539             | CKS1543           | CKS1547             |
|                           | Gold Plate                 | CKS2451        | CKS2452             | CKS2470           | CKS2471             |
| Printed Circuit Board     | Silver                     | CKS1119        | CKS1113             | CKS1122           | CKS1089             |
|                           | Gold Flash                 | CKS1536        | CKS1540             | CKS1544           | CKS1548             |
|                           | Gold Plate                 | CKS2453        | CKS2454             | CKS2472           | CKS2473             |
| <b>3 POLE 4 POSITION</b>  | <b>STOP INCLUDED</b>       |                |                     |                   |                     |
| Solder Tag                | Silver                     | CKS1041        | CKS1031             | CKS1036           | CKS1026             |
|                           | Gold Flash                 | CKS1510        | CKS1504             | CKS1518           | CKS1522             |
|                           | Gold Plate                 | CKS2455        | CKS1577             | CKS2474           | CKS2475             |
| Printed Circuit Board     | Silver                     | CKS1061        | CKS1051             | CKS1056           | CKS1046             |
|                           | Gold Flash                 | CKS1514        | CKS1500             | CKS1526           | CKS1530             |
|                           | Gold Plate                 | CKS2456        | CKS1952             | CKS2476           | CKS2477             |
| <b>4 POLE 3 POSITION</b>  | <b>STOP INCLUDED</b>       |                |                     |                   |                     |
| Solder Tag                | Silver                     | CKS1042        | CKS1032             | CKS1037           | CKS1027             |
|                           | Gold Flash                 | CKS1511        | CKS1505             | CKS1519           | CKS1523             |
|                           | Gold Plate                 | CKS1673        | CKS1822             | CKS2478           | CKS2479             |
| Printed Circuit Board     | Silver                     | CKS1062        | CKS1052             | CKS1057           | CKS1047             |
|                           | Gold Flash                 | CKS1515        | CKS1507             | CKS1527           | CKS1531             |
|                           | Gold Plate                 | CKS2457        | CKS1953             | CKS2480           | CKS2481             |

CUSTOMER TO COMPLETE OR DELETE AS REQUIRED



|          | A     | B | C             |
|----------|-------|---|---------------|
| IMPERIAL | Ø6.35 |   | Ø9.52 x 32TPI |
| METRIC   | Ø6.00 |   | M10 x 0.75    |

|          | D | E | F |
|----------|---|---|---|
| IMPERIAL |   |   |   |
| METRIC   |   |   |   |

| INDEXING                                                                                                              |     |     |     | INDEXING                                                                                                                                                                                                                  |     |     |     | INDEXING      |     |     |     | INDEXING                   |     |     |     |
|-----------------------------------------------------------------------------------------------------------------------|-----|-----|-----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----|-----|---------------|-----|-----|-----|----------------------------|-----|-----|-----|
| <p>1 POLE</p>                                                                                                         |     |     |     | <p>2 POLE</p>                                                                                                                                                                                                             |     |     |     | <p>3 POLE</p> |     |     |     | <p>4 POLE</p>              |     |     |     |
| POSITIONS                                                                                                             |     |     |     | POSITIONS                                                                                                                                                                                                                 |     |     |     | POSITIONS     |     |     |     | POSITIONS                  |     |     |     |
| MBB                                                                                                                   | BBM | SOL | PCB | MBB                                                                                                                                                                                                                       | BBM | SOL | PCB | MBB           | BBM | SOL | PCB | MBB                        | BBM | SOL | PCB |
| <b>IMPORTANT!</b> WAFERS FLATS & SLOTS VIEWED FROM THE FRONT OF SWITCH IN EXTREME ANTICLOCKWISE POSITION (POSITION 1) |     |     |     |                                                                                                                                                                                                                           |     |     |     |               |     |     |     |                            |     |     |     |
| SPECIAL REQUIREMENTS                                                                                                  |     |     |     |                                                                                                                                                                                                                           |     |     |     |               |     |     |     |                            |     |     |     |
|                                                                                                                       |     |     |     | <b>OPTIONS</b> Stops are adjustable 2-12 positions. Continuous rotation (No Stops) available. Make before break (MBB) or Break before Make (BBM) rotors available. Solder Tag (SOL) or PCB pin (PCB) – indicate on wafer. |     |     |     |               |     |     |     |                            |     |     |     |
|                                                                                                                       |     |     |     | CUSTOMER:                                                                                                                                                                                                                 |     |     |     | DATE:         |     |     |     | CUSTOMER REFERENCE NUMBER: |     |     |     |

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